

COMBINATION STORAGE BOX

BACKGROUND OF THE INVENTION

1. Field of the Invention

[0001] The present invention relates generally to a combination storage box, and in particular to a foldable combination storage box to be placed in an ice bag or ice barrel.

2. The Prior Arts

[0002] In an average ice bag or ice barrel, there is usually a storage box arranged to serve as a thermal layer for insulating heat (keeping food or beverage warm or cold) and for fixing bottles at places on the other hand.

[0003] Unsatisfactorily, as the storage box so far, such as an ice barrel for angler, is largely plastics-molded, it is somewhat bulky and heavy for carrying.

SUMMARY OF THE INVENTION

[0004] A primary object of the present invention is to provide a combination storage box of high portability to be disposed in an ice bag or ice barrel for storing foods and the likes.

[0005] Another object of the present invention is to provide a combination storage box, which is foldable for saving space when carrying.

[0006] In order to realize above objects, a combination storage box of the present invention comprises a base and an enclosing wall. A groove is formed peripherally around the base. The periphery of the base is extended outwardly to form a plurality of foldable clasp portions. A bottom edge of the enclosing wall is provided with an insertion portion in a position corresponding to the groove. The insertion portion is substantially in a step formation for easy meshing with the groove in the base. The

bottom edge of the enclosing wall is extended outwardly to form a plurality of fixing portions in positions corresponding to the clasp portions.

[0007] For more detailed information regarding advantages or features of the present invention, at least an example of preferred embodiment will be described below with reference to the annexed drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0008] The related drawings in connection with the detailed description of the present invention to be made later are described briefly as follows, in which:

[0009] Figure 1 is an exploded view of a combination storage box of the present invention;

[0010] Figure 2 is an enlarged view of encircled portion 2 of Figure 1;

[0011] Figure 3 is an enlarged view of encircled portion 3 of Figure 1;

[0012] Figure 4 is an assembled sectional view of the present invention; and

[0013] Figure 5 is a schematic view showing an enclosing wall of the present invention under folded state.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0014] With reference to the drawings and in particular to Figure 1, a combination storage box constructed in accordance with the present invention comprises a base 11 and a foldable enclosing wall 12. Preferably, the base 11 and the foldable enclosing wall 12 are molded with plastics.

[0015] The combination storage box has a groove 111 formed peripherally around the base 11. The periphery of the base 11 is extended outwardly to form a plurality of foldable clasp portions 112 as indicated in the enlarged views of Figures 2 and 3. A bottom edge of the enclosing wall 12 is provided with an insertion portion 121 in a position corresponding to the groove 111. The insertion portion 121 is

substantially in a step formation for easy meshing with the groove 111 in the base 11. The bottom edge of the enclosing wall 12 is extended outwardly to form a plurality of fixing portions 122 in positions corresponding to the clasp portions 112.

[0016] Also referring to Figure 4, the base 11 and the enclosing wall 12 are jointed together in a concavo-convex structure. The clasp portions 112 of the base 11 are fastened to the fixing portions 122 of the enclosing wall 12 by means of jointing a plurality of clasp slots 112a of the clasp portions 112 together with a plurality of clasp protrusions 122a of the fixing portions 122. An escape-preventing device 122b is provided to each clasp protrusion 122a to thereby ensure a tight clasp of the base 11 and the enclosing wall 12.

[0017] In a preferred embodiment, the enclosing wall 12 is shaped in a rectangular and longitudinal hollow body to mate with a longitudinal average ice bag or ice barrel, in which the base 11 is relatively shaped in a rectangle to be received inside the ice bag or ice barrel. However, it is apparent that this embodiment is illustrative only, not intended to limit the scope of the present invention. For example, both the enclosing wall and the base could be shaped in a cylindrical configuration.

[0018] Moreover, for the sake of increasing portability, the enclosing wall 12 could be folded flatly as illustrated in Figure 5.

[0019] Finally, by using the present invention, reducing package volume for easy assembling and carrying is possible. Also, a plastic material for integral molding is adopted such that heat insulation and leakage prevention can be achieved.

[0020] In the above described, at least one preferred embodiment has been described in detail with reference to the drawings annexed, and it is apparent that

numerous changes or modifications may be made without departing from the true spirit and scope thereof, as set forth in the claims below.